

What is claimed is:

1 1. A portable telephone apparatus for roaming between  
2 a first portable telephone system and a second portable  
3 telephone system, comprising:

4 reception means for receiving a message transmitted  
5 from a base station in one of the two systems;

6 judging means for judging whether a received message  
7 has a common format in the two systems or a different format  
8 in the two systems;

9 first processing means for processing the received  
10 message by performing a procedure common to the two systems  
11 when the message has the common format, and

12 second processing means for processing the received  
13 message by performing procedures, each procedure unique  
14 to each of the two systems, when the message has the  
15 different format.

1 2. A portable telephone apparatus according to Claim 1,  
2 the portable telephone apparatus further comprising:

3 protocol revision receiving means for receiving,  
4 from the base station, a protocol revision message showing  
5 a type of communication protocol used in one of the two  
6 systems;

7 wherein the reception means receives a succeeding  
8 message which succeeds the protocol revision message, from  
9 the base station;

10 the second processing means processes the succeeding  
11 message by performing a procedure unique to the first  
12 system when the communication protocol in the first system  
13 is shown in the protocol revision message, and processes  
14 the following message by performing a procedure unique to  
15 the second system when the communication protocol in the  
16 second system is shown in the protocol revision message.

1 3. A portable telephone apparatus according to Claim 2,  
2 wherein a base station in the first system transmits  
3 the protocol revision message on a first frequency, and  
4 a base station in the second system transmits the protocol  
5 revision message on a second frequency,

6 wherein the protocol receiving means receives either  
7 of the two protocol revision messages by scanning the first  
8 frequency and the second frequency.

1 4. A portable telephone apparatus according to Claim 1,  
2 wherein the first system is an IS-95 Code Division  
3 Multiple Access (CDMA) mobile telephone system, the second  
4 system is an ARIB STD-T53 CDMA mobile telephone system,

5 and

6 the message having a different format is one of a)  
7 a neighbor list message showing a list of a plurality of  
8 base stations located close to the portable telephone  
9 apparatus, b) a channel assignment message notifying  
10 channel allocation, c) a message including a service option  
11 request order for deciding a communication mode, d) a  
12 handoff direction message for handoff processing, and e)  
13 a message for performing ringer control.

1 5. A portable telephone apparatus according to Claim 4,  
1 the portable telephone apparatus further comprising:

2 protocol revision receiving means for receiving,  
3 from the base station, a protocol revision message showing  
4 a type of communication protocol used in one of the two  
5 systems;

6 wherein the reception means receives a succeeding  
7 message which succeeds the protocol revision message, from  
8 the base station;

9 the second processing means processes the succeeding  
10 message by performing a procedure unique to the first  
11 system when the communication protocol in the first system  
12 is shown in the protocol revision message, and processes  
13 the following message by performing a procedure unique to

- 14 the second system when the communication protocol in the  
15 second system is shown in the protocol revision message.